



PRODUCT DATA SHEET

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WOOD FLOORING

Sika® Primer MB^{CA}

HIGH-SOLIDS, EPOXY RESIN-BASED, MOISTURE REGULATOR, ADHESION PROMOTER AND SURFACE CONSOLIDATOR

Description	Sika® Primer MB ^{CA} is a two-component, low viscosity, low VOC, multi-purpose epoxy resin. It is used under wood flooring products that require protection from sub-floor moisture, for adhesion to be improved or surfaces to be consolidated.
Where to Use	Sika® Primer MB ^{CA} in conjunction with SikaBond® Wood Floor Adhesives is used as: <ul style="list-style-type: none"> ▪ A moisture regulator: to help control osmotic moisture propagation in cementitious substrates with a moisture content from 4% to 6% (Tramex method). ▪ An adhesion promoter: for surfaces with old adhesive residues. ▪ A surface consolidator: on concrete, cement, gypsum screeds and old substrates.
Advantages	<ul style="list-style-type: none"> ▪ Easy to apply, and environmentally friendly. ▪ Suitable on old substrates, when prepared correctly. ▪ Shorter construction periods, fast-track procedure ▪ Low viscosity for excellent penetration and stabilisation of substrates. ▪ Regulates moisture at the surface. ▪ Reduces adhesive consumption. ▪ Suitable for use on floors with in-floor, radiant heating. ▪ Compatible with all SikaBond® wood flooring adhesives.

Technical Data			
Packaging	10 L (2.64 US gal.) pails		
Colour	Blue tint		
Yield	Moisture Regulator: 23 m ² (250 ft ²) per pail Surface Consolidator or Adhesion Promoter: 37 - 42 m ² (400 - 450 ft ²) per pail Surface Consolidator & Moisture Regulator: 14 m ² (150 ft ²) per pail		
Shelf Life	See Application guidelines. Coverage figures are for estimation purposes only and do not allow for profile, porosity or wastage. 2 years in original unopened packaging. Store dry between 5 and 32 °C (41 and 89 °F). Condition to 18 and 30 °C (65 and 86 °F) before using.		
Mix Ratio	A:B = 3:1 by volume		
Properties at 23 °C (73 °F) and 50% R.H.			
Solids Content	> 95%		
Specific Gravity, kg/L (lb/US gal.)	A:	1.12 (9.34)	
ASTM D1475	B:	1.01 (8.43)	
	A+B:	1.09 (9.07)	
Viscosity	A+B:	260 cps	
Service Temperature	(min./max.)	0 °C/50 °C (32 °F/122 °F)	
Pot Life, 250 g (8.8 oz)	35 - 40 min		
	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)
Open Time on Substrate (min)	70	45	40
Waiting Time Between Coats (hrs) (min./max.)	24/96	8/48	5/24
Minimum curing time, prior to walking or applying SikaBond® Adhesives (hrs) (min./max.)	18/48	12/36	6/36
Compressive Strength ASTM D695	Note When Sika® Primer MB ^{CA} is left for more than 36 hours, the surface should be abraded and solvent wiped prior to application of SikaBond® Adhesives		
Tensile Strength ASTM D638	41 MPa (5946 psi)		
% Elongation	36 MPa (5221 psi)		
Bond Strength ASTM D4541	10.3 %		
Thermal Compatibility ASTM C884	> 1.7 MPa (246.5 psi) (substrate failure)		
Flammability ASTM D635	Passes		
Water Absorption ASTM C413	55 mm (2.17 in)		
	0.3%		

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

HOW TO USE

Surface Preparation

Concrete, cement and gypsum based sub-floors should be mechanically prepared to achieve the required substrate condition; blast-cleaning or grinding with a diamond cup wheel are appropriate techniques. **Note:** Acid etching is not acceptable. Thoroughly clean the floor with an industrial vacuum following mechanical preparation, so as to remove all preparation and substrate debris prior to installation of the Sika® Primer MB^{CA}.

Consult the manufacturer of any patching or levelling materials which may have been used regarding priming, prior to the placement of materials.

If surfaces contain asphalt adhesive (cut-back), follow the Resilient Floor Covering Institute's Recommended Work Practices for removal. When the asphalt adhesive is sufficiently removed, use Sika® Primer MB^{CA} to help promote adhesion to the sub-floor, or a Sika® Level levelling compound, with Sika® Level-02 Primer^{CA} over the cut-back residue. Due to differences in asphalt-based adhesive types and performance capabilities, the applicator must verify that preparation of the surface is sufficient prior to using Sika® Primer MB^{CA} or Sika® Level underlayment and Sika® Level Primer.

For unknown substrates, please contact Sika Canada Technical Services for advice regarding best practice. Floors with other adhesive residue must have a minimum of 50% of the old adhesive removed (evenly distributed), this being achieved by grinding or other mechanical methods. All remaining adhesive residue must be structurally sound and securely bonded to the sub-floor.

On plastic/polypropylene fibre-reinforced concrete, fibres should be flamed off the surface, prior to the application of Sika® Primer MB^{CA}. Please contact Sika Canada for project-specific advice.

Substrate Quality

Substrates must be structurally sound, stable and solid. They must be surface dry, thoroughly clean and free from dust, grease, oil, wax, paint, latex compounds, curing and sealing compounds, laitance, and any contaminant that could act as a bond breaker. Surface laitance, together with sections of substrate that are not structurally sound, must have been mechanically removed.

The compressive strength of the substrate must be ≥ 8 MPa (1160 psi) and the tensile bond strength must be ≥ 0.8 MPa (116 psi). All surfaces must have an open-textured surface to allow Sika® Primer MB^{CA} to penetrate and function properly as a moisture barrier or surface consolidator. It is essential to comply with all standard construction rules, as well as wood-floor and sub-floor manufacturers' instructions.

Mixing

Pre-stir each component individually, until an even consistency of each Component is achieved. Empty Component B into the container in which Component A is supplied. Mix the combined components for at least three (3) minutes using a low-speed drill (300 - 450 rpm) to minimize entrapping air. Use an *Exomixer*® type mixing paddle (recommended model) suited to the volume and dimensions of the mixing container. During the mixing operations, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing. Mix only that quantity which can be used within its pot life.

Application

After mixing Component B and Component A completely to a homogeneous (uniform) mixture, of consistent colour and even consistency, pour the contents of the mixing pail onto the floor for best working time. **Attempting to work from the pail will reduce working time - see pot life.** Apply Sika® Primer MB^{CA} uniformly (crosswise) to the substrate using a medium nap roller, ensuring that a continuous coat is applied over the entire surface (a mirror finish should be achieved). Avoid ponding.

Coverage

Moisture Regulator:

Approximately 23 m² (250 ft²) per pail.

Only one coat is necessary for moisture regulation if an appropriate, shiny surface is obtained. A proper glossy surface should be obtained after application is complete - this should exist across the entire floor area to ensure sufficient moisture barrier properties.

Surface Consolidator or Adhesion Promoter:

Approximately 37 - 42 m² (400-450 ft²) per pail.

When used as a surface consolidator or adhesion promoter alone, coverage will be approximately 37 - 42 m² (400 - 450 ft²) per pail depending on the substrate porosity. Again, a proper glossy surface must be obtained. Typically, only one coat is necessary if these conditions are achieved

Surface Consolidator & Moisture Regulator:

Approximately 28 m² (300 ft²) per pail per coat.

Two coats of primer are required if the material is used as a surface consolidator and a moisture regulator.

When applying 2 coats estimate 28 m² (300 ft²) per pail per coat, realizing that the first coat will provide less coverage due to surface porosity while the second coat will achieve higher coverage. For small projects that require a 2 coat application it may be necessary to use two or multiple pails as the material prepared for the first coat will likely cure prior to application of the second coat.

Note: If primer is still very soft, then let more time elapse until only a tacky surface exists, then apply second coat.

Clean Up

Clean all tools and equipment with Sika® Epoxy Cleaner. Once hardened, product can only be removed mechanically. Wash soiled hands and skin thoroughly in hot soapy water or use Sika® Hand Cleaner towels.

Limitations

- Sika® Primer MB^{CA} should not be hand mixed; mix by mechanical means only.
- Do not use on exterior, on-grade substrates.
- Gypsum based sub-floors are very susceptible to excess moisture and will be degraded if exposed to excess moisture from below or above.
- Sika® Primer MB^{CA} will not prevent damage to gypsum based sub-floors that are exposed to excess moisture levels.
- Sika Canada recommends the use of Portland Cement underlayments for best results. Consult level/patch system manufacturer regarding priming prior to the placement of materials.
- Sika® Primer MB^{CA} will not act as a moisture regulator for gypsum screeds.
- Sika® Primer MB^{CA} will not prevent hydrostatic head.
- Sika Canada does not make any standing recommendations as to the structural integrity of old adhesive residues or sub-floor materials that are not manufactured by Sika.
- Wood flooring manufacturer's room humidity levels and wood acclimation requirements should be strictly followed.
- Minimum/Maximum substrate temperature: 15 °C/30 °C (59 °F/86 °F).
- Substrate temperature must be 3 °C (5.5 °F) above measured dew point.
- Maximum Relative Humidity: 85 %
- Moisture content of the substrate must be ≤ 6 % (Tramex method) when coating is applied or use Sikafloor®-81 EpoCem®^{CA}.
- Do not apply to surfaces where moisture vapour can condense and freeze.
- Do not apply to porous surfaces where moisture vapour transmission will occur during the application.
- Proper coverage must be used to achieve moisture regulator properties.
- Protect from dampness, condensation and water for at least 24 hours.
- When Sika® Primer MB^{CA} is left for more than 36 hours, the surface should be abraded and solvent wiped prior to application of SikaBond® Adhesives.
- Sika only recommends the use of Sika® Primer MB^{CA} with SikaBond® adhesive systems.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

The Information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions, within their shelflife. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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